



MECTOOL

MADE IN SWEDEN



Friction Transporter

Installation & Service Manual



TPE 100 Manual

Installation.

TPE 100 should be mounted so the tray can move without obstruction in both directions. Mount the Transporter so no risk of crushing hazard might occur to personnel. TPE 100 should be connected to 380 V 3 phase 16 A and via a motor protection circuit breaker.

Direction of rotation.

The motor rotates clockwise, see arrow on motor.

Note.

TPE 100 does NOT feed in the other direction if you switch the rotation direction. You will then only get a lesser efficiency level.
If the worm gear unit is turned upside down, you will need to change the rotation direction.

Change of motor position.

Pos. 02: by removing these three (3) screws the motor can be positioned in 90 degrees intervals. WARNING, this requires two (2) persons as the motor is spring loaded.

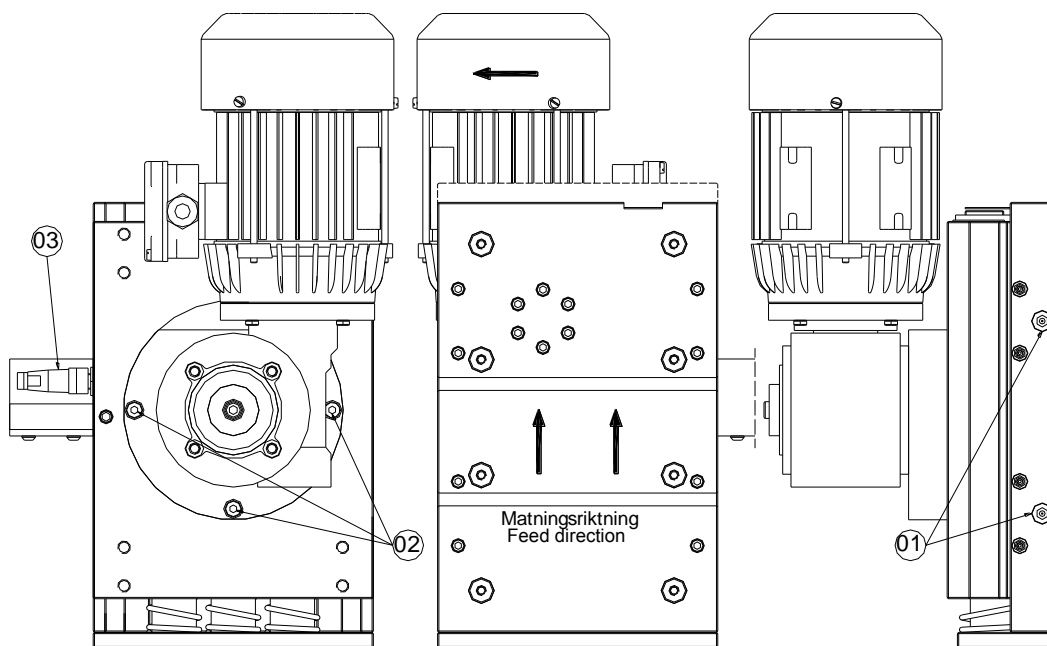
Operation switch.

Pos. 03: Connector to speed monitor.

A speed monitor is mounted on the Transporter, this can be used to indicate a disruption warning in the case that the Transporter stops.

Maintenance.

Pos. 01: Grease nipples 4 pcs. Lubricate with a few pulls of a grease gun once a month.

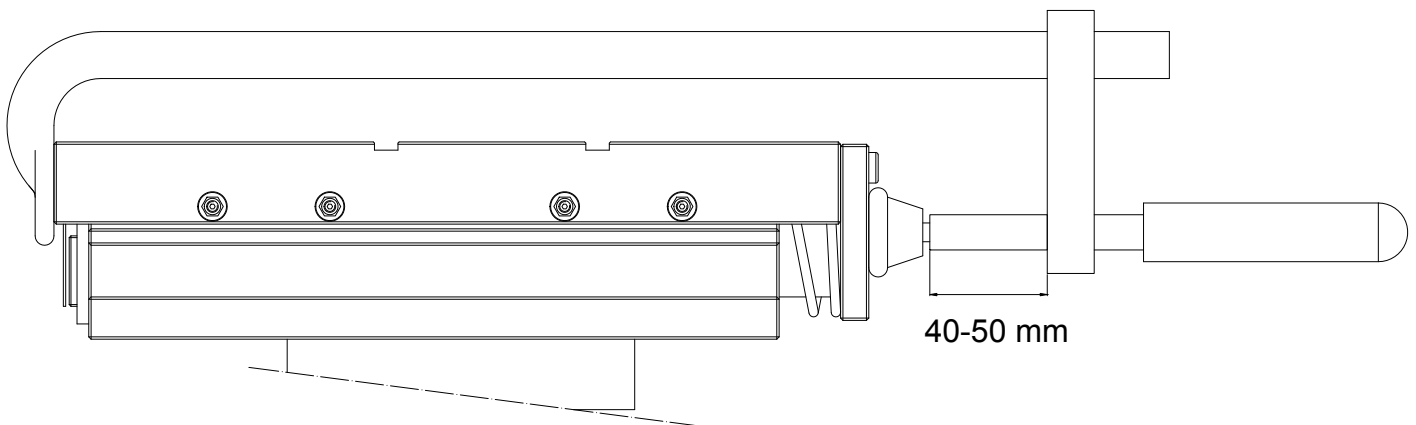




Please note that some parts may not be available because they are not field replaceable. If this is the case, a subassembly must be used. Some parts are only available as a subassembly and cannot be purchased individually. Check the spare parts reference lists for details.

Disassembly.

1. Apply a vise to the TPE 100 according to the schematic below



2. Remove screws 100-204 (3 pcs).
3. Carefully loosen the vise 40-50 mm, the tension is ca 100 kg.
4. Remove the yoke with springs and spring guides.
5. Loosen the set screws 100-230 (4 pcs)
6. Remove the screws 100-203 (8pcs) and remove the slide frame.
7. Disassemble the bearing support by removing the screws 40-054.
8. Remove the locking nut 100-244 and remove the curve with the axle.

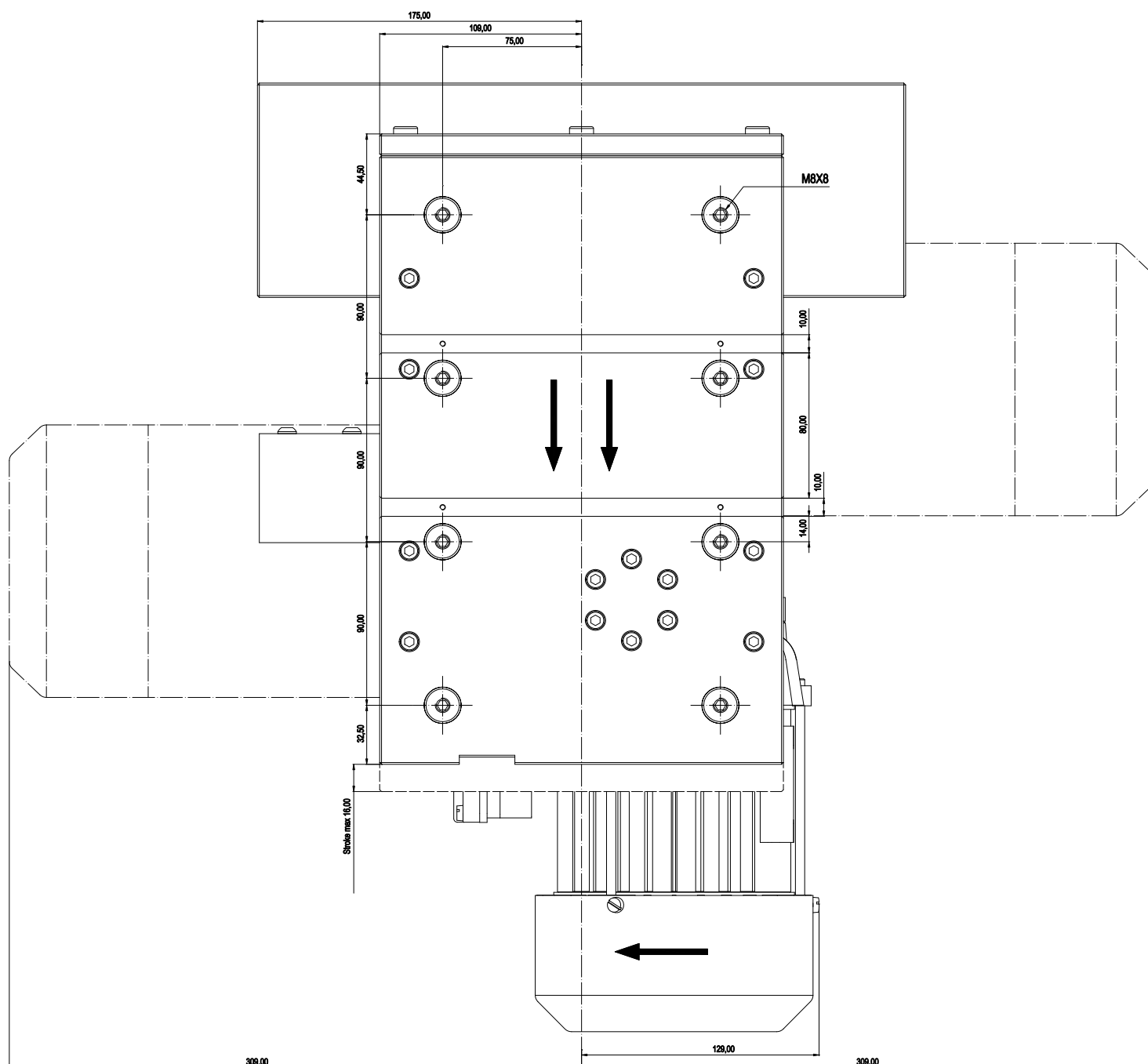
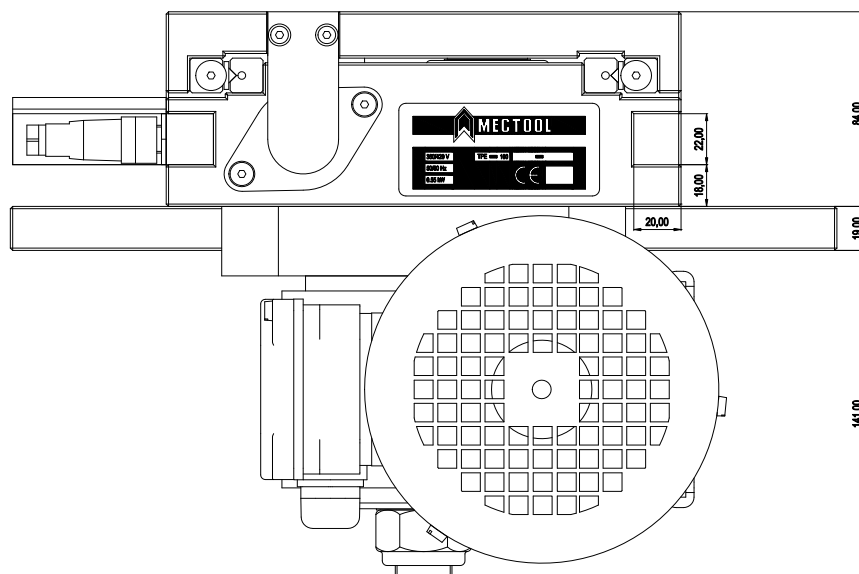
Reassembly.

1. Reassemble in reverse order.
2. Adjust the set screws 100-230 so that the slide frame slides effortlessly without play.



MECTOOL

TPE 100 Dimensional drawing

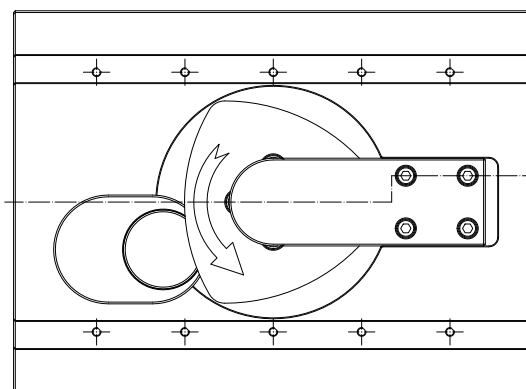
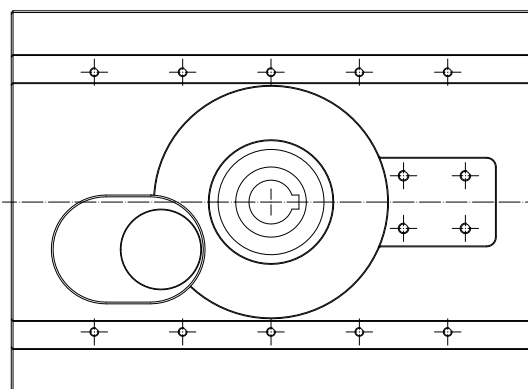
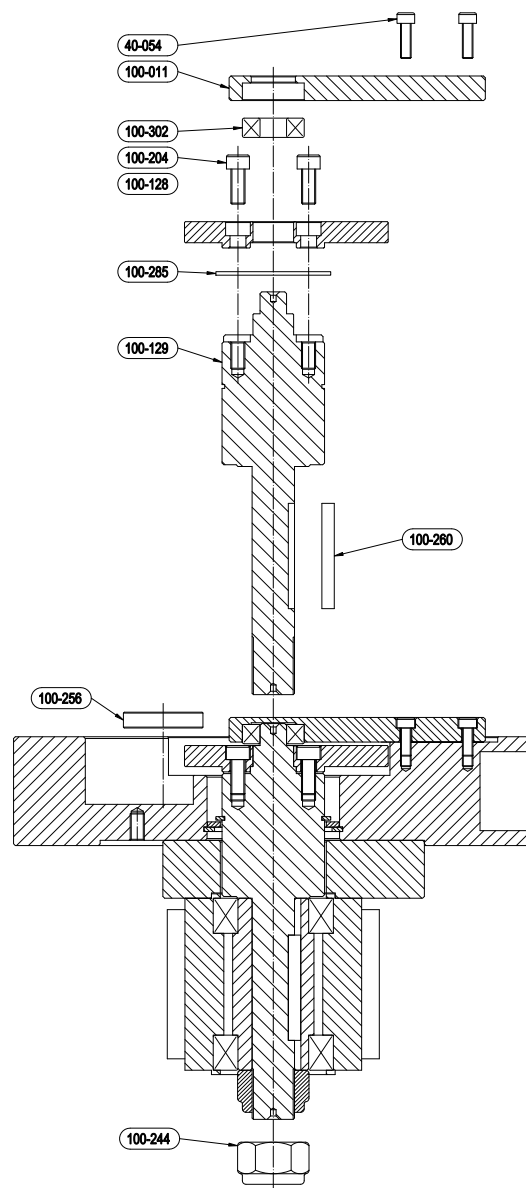
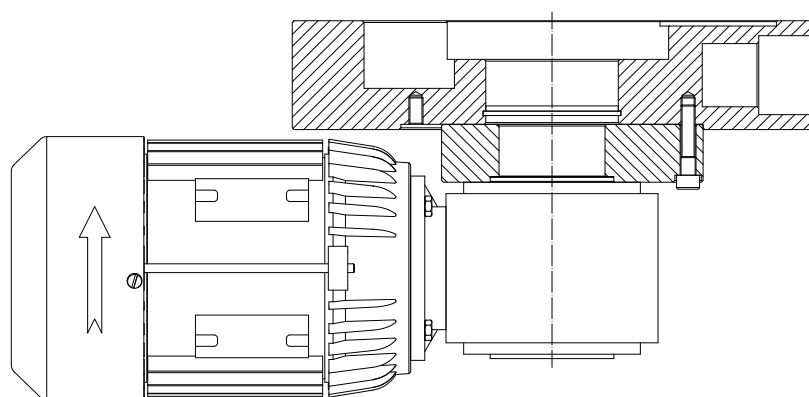
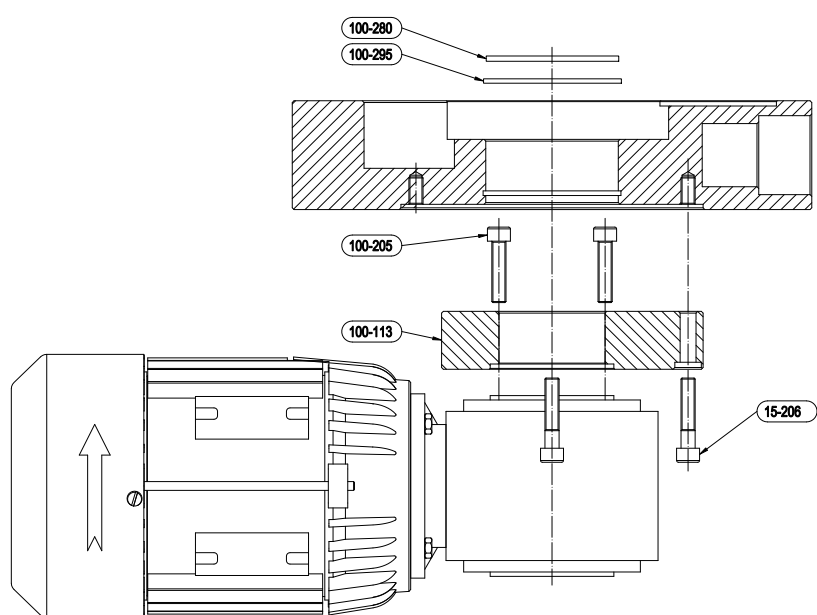


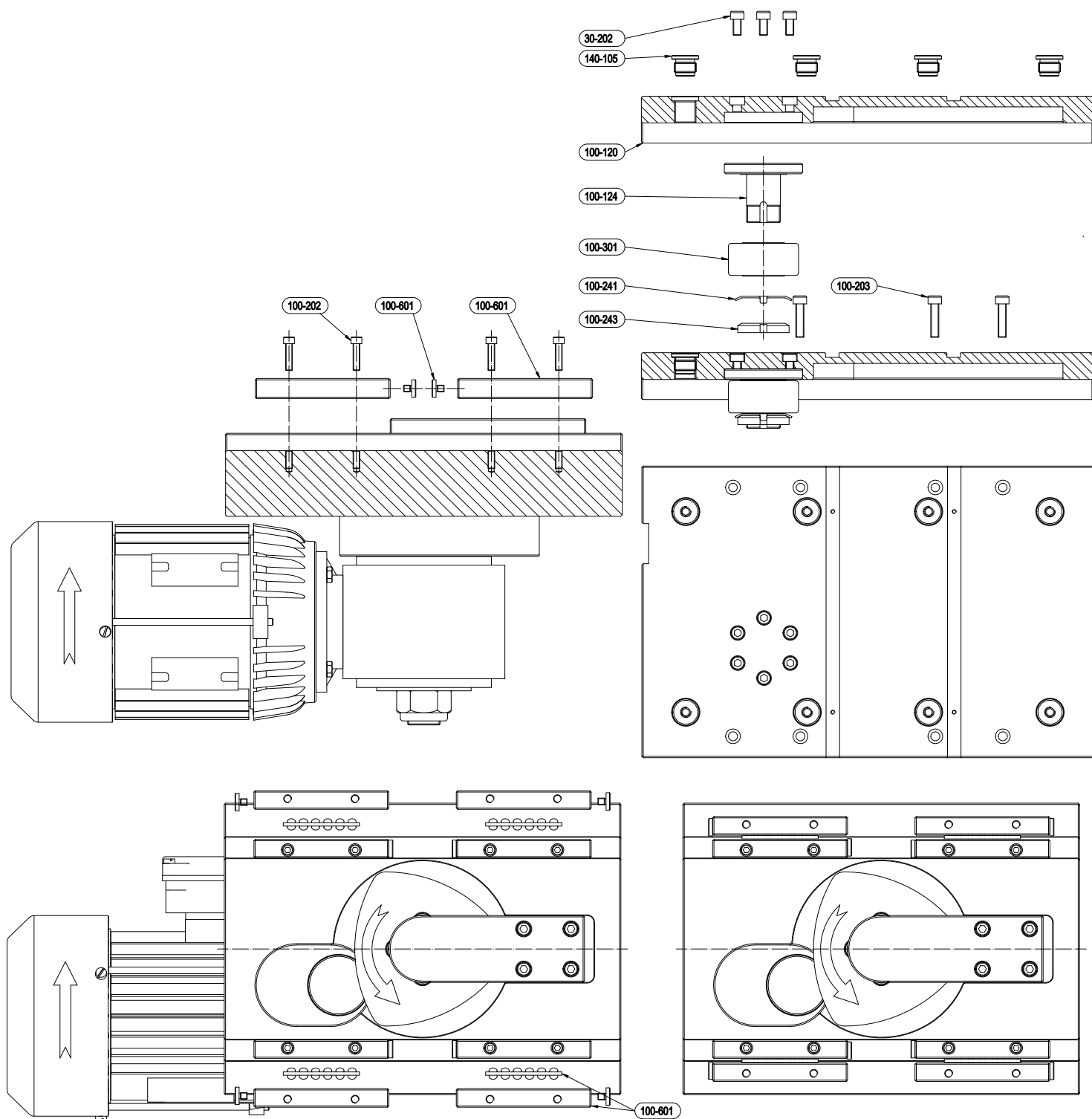


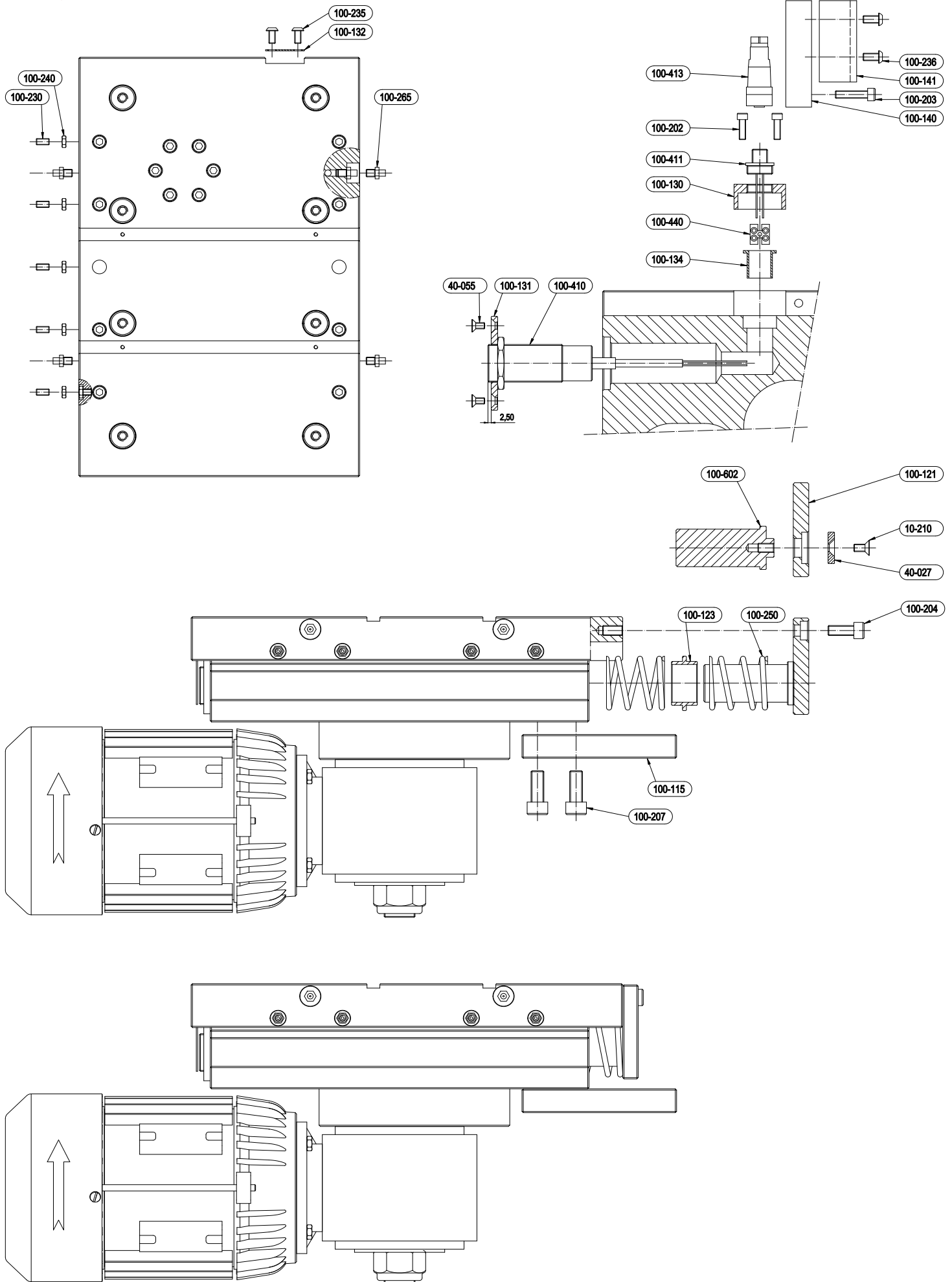
Part No.	Description	Qty	Part No.	Description	Qty
10-210	Screw	3	100-256	Magnet	1
15-206	Screw	3	100-260	Wedge	1
30-202	Screw	6	100-265	Grease nipple	4
40-027	Washer	3	100-280	Support ring	1
40-054	Screw	4	100-285	Snap ring	1
40-055	Screw	2	100-295	Snap ring	1
100-111	Bearing support	1	100-301	Track runner bearing	1
100-113	Guide plate	1	100-302	Ball bearing	1
100-115	Attachment plate	1	100-401	Electric motor	1
100-120	Slide frame	1	100-403	Worm gear	1
100-121	Rear holder	1	100-404	Motor coupling	1
100-123	Spring sleeve	3	100-410	Speed monitor	1
100-124	Bearing shaft	1	100-411	Socket	1
100-128	Curve	1	100-413	Plug in	1
100-129	Axle	1	100-440	Plint	1
100-130	Adapter attachement	1	140-105	Mounting insert	8
100-131	Sensor attachement	1	<u>Subassemblies</u>		
100-132	Plate	1			
100-134	Tube	1			
100-140	Attachment	1			
100-141	Guard	1	100-601	Linear guide	Qty
100-202	Screw	10	100-311	Prism *	2
100-203	Screw	9	100-312	Stop	2
100-204	Screw	7	100-313	Roller guide *	1
100-205	Screw	4	100-602	Spring guide	Qty
100-207	Screw	4	100-122	Spring guide *	1
100-230	Screw	4	100-245	Insert *	1
100-235	Screw	2			
100-236	Screw	2	100-605	Worm gear	Qty
100-240	Nut	4	100-402	Motor attachment *	1
100-241	Washer	1	100-403	Worm gear *	1
100-243	Nut	1	100-405	Screw *	4
100-244	Locking nut	4	* Not sold separately		
100-250	Spring	6			













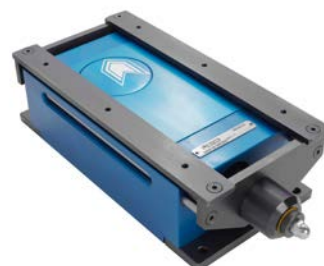
TPE 15/19

Max load capacity	15 kg
Max tray weight	3 kg
Stroke length	19 mm
Feed rate	4-8 m/min
Sound level	55 dB (A)
Motor effect	0,1 kw
Electrical connection	110-240 V



TPE 30/19

Max load capacity	30 kg
Max tray weight	5 kg
Stroke length	19 mm
Feed rate	4-8 m/min
Sound level	60 dB (A)
Motor effect	0,1 kw
Electrical connection	110-240 V



TPE 100

Max load capacity	100 kg
Max tray weight	35 kg
Stroke length	16 mm
Feed rate	8-10 m/min
Sound level	62 dB (A)
Motor effect	0,5 kw
Electrical connection	380-415 V 50-60 Hz. alternatively 110-120 V





Factory repair service.

If your Transporter requires repair, return it *prepaid* to our Service Center.

Repairs include fault tracing and repair or replacement of failed components, as well as final testing to ensure your Transporter is functioning according to specifications.

All items within the warranty period are evaluated by technicians to verify warranty eligibility.

All Transporters repaired through Mectool receive a new three month manufacturer's warranty (wear parts excluded).

Mectool Sweden AB
PJ Rösiös Väg 121-3
293 40 Olofström
Sweden

Phone: +46 454 30 90 40
Fax: +46 454 416 56
Email: info@mectool.se
Web: www.mectool.se

